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AUTHOR Misialek, Matthew
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ABSTRACT

This unit, based on the 1982 North Dakota Official Highway Map, is designed to familiarize junior high school students with the information provided by road maps and to help them develop essential map skills. Topics covered in the unit include using mileage logs, map legends, and map coordinates; understanding travel information; and identifying traffic rules, recreation facilities, city populations, and points of interest. Materials provided are: teaching instructions; three student worksheets ("Getting Acquainted with Your Map," "Map Legends," and "Getting Coordinated"); and a quiz on map coordinates. Also included is an exercise in following directions in which students locate on a North Dakota map areas that have been settled by different ethnic groups. (DC)

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Matthew Misialek
July 1982
Bowbells Public Schools
Bowbells, North Dakota

Title: Developing Map Skills; North Dakota Road Maps

Introduction: The following unit is a revision of Keith Chamberlain's session Creativity With Maps applied to North Dakota. This unit is an attempt to familiarize students with the information provided by road maps and help them to develop essential map skills.

Objective: At the completion of this unit, students should be able to:
1. Identify the information provided by the North Dakota road map including; mileage logs, the map legend, travel information, traffic ruler, recreation facilities, city populations, points of interest, and other information.

2. Apply the information provided through mapping exercises.

Grade Level: Junior High

Time: Three 50-minute periods

Material: North Dakota Official Highway Map 1982 and student handouts

Procedure:

Step 1. Introduce students to the road map by emphasizing the variety of information provided by it.

Step 2. Hand out "Getting Acquainted with your Map" and road maps.

Step 3. Debrief by going over key.

Step 4. Handout and complete "Map Legends".

Step 5. Introduce students to coordinates by presenting a map with the grid pattern drawn in. Explain its importance in locating map sites.

Step 6. Hand out and complete "Getting Coordinated".

Step 7. Return corrected hand out and review coordinates.

Step 8. Quiz "Coordinates".

Debriefing: Reemphasize the usefulness of road maps as a resource and location tool.

Evaluation: Given three cities, students will plan an itinerary including road numbers and points of interest.

Further Suggestions: Have students write a narrative of a recent trip they took including mileage and other information provided by a map.

North Dakota Council for the Social Studies
501 West 15th Street
Grafton, North Dakota 58237

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Name _____

Period _____

GETTING ACQUAINTED WITH YOUR MAP

1. County seats are shown in what color on your map index? _____
2. The population of North Dakota is _____.
3. The area in square miles for North Dakota is _____.
4. Studded tires may be used in North Dakota between _____
and _____.
5. If involved in a traffic accident within the state you must report it
if _____.
6. The phone number for emergency assistance is _____.
7. The number of radio stations in Fargo is _____.
8. Give the number of FM radio stations Jamestown has _____.
9. If a person wants information about National Parks in North Dakota,
what number should he/she dial? _____.
10. For information on road conditions dial _____.
11. Name two state park facilities that have horseback trails
_____, _____.
12. List three state park facilities that allow boating _____,
_____, _____.
13. Name the only state park that lists backpacking trails
_____.
14. The mileage between Fargo and Grand Forks is _____.
15. The mileage between Cavalier and LaMoure is _____.
16. The mileage between Grafton and Minot is _____.
17. The population of Fargo is _____.
18. The population of Grano is _____.
19. The population of Inkster is _____.
20. Name the capitol of North Dakota and give its population
_____, _____.

Period _____

1. The symbol for a time zone boundary is _____.
2. The symbol for a port of entry is _____.
3. The symbol for a rest area is _____.
4. National Parks are shaded in this color _____.
5. Indian Reservations are shaded in this color _____.
6. The symbol for a railroad is _____.
7. The symbol for a college or University is _____.
8. On this map one inch equals _____ miles.
9. On this map State Numbered Highways are drawn in this color _____.
10. The symbol for a city with 1,000 to 5,000 people is _____.
11. The symbol for a city with 5,000 to 10,000 people is _____.
12. The symbol for a city with 10,000 people or more is _____.
13. Bismarck should be represented with this city symbol _____.
14. Cando should have this symbol _____.
15. Devils Lake should have this city symbol _____.
16. a) In the space below, draw a large square to represent the outlines of the state of North Dakota. Label each edge and each corner with the map directions that belong to it.

b) Name the states the border North Dakota on the East _____
West _____
South _____
17. Bonus Question: Using another source, name the two Canadian Provinces the border North Dakota to the north.

Name _____

Period _____

111 GETTING COORDINATED

This is an exercise using map coordinates (those little numbers and letters along the margins of your map).

1. Find Glen Ullin and give the number of the highway that goes through that town: _____
2. The largest town in E-10 is _____
3. The coordinates for Williston are _____.
4. Name the State Park you pass by when traveling from Cavalier to Langdon via State Highway number 5 _____.
5. Name the largest town in K-5 _____.
6. Name the largest town in I-17 _____.
7. From the town in number 6 above, follow highway 52-281 southward to the first town with an airport. Name the town and give its coordinates.
8. Continuing eastward on Interstate Highway 94, name the first town you find which has a state college. _____.
9. Lamoure is located on state Highway _____.
10. Name the lake located near Lamoure _____.
11. What point of interest is located near Amidon along U. S. Highway 85? _____.
12. Continue south to the nearest town with a hospital. Name the town and its coordinates _____.
13. List the coordinates for the town of Langdon _____.
14. If traveling north of Langdon one would probably travel on State Highway _____.
15. The port of entry on the highway in question 14 is open between what times of the day? _____.

BEST COPY AVAILABLE

Name _____

Period _____

IV QUIZ COORDINATES

1. Coordinates are used for _____.
2. The large town in F-23 is _____.
3. The National Park in H-4 is _____.
4. The point of interest in E-14 is _____.
5. The coordinates for Hettinger are _____.
6. Name the dam in L-3 _____.
7. The town with a hospital in M-21 is _____.
8. Locate the State Park is located in N-15 _____.
9. The large town in K-5 is _____.
10. The Interstate highway running through H-23 is _____.

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NORTH DAKOTA ETHNIC TRIP

Teacher's Note: This exercise identifies the major ethnic groups which settled in North Dakota. A related activity would be to locate the corresponding place names on a world map with colored string or marker.

Directions: Working as teams, locate the following places using the directions given.

Our trip begins in Mandan—a large city on the west bank of the Missouri River. This was named in memory of the Mandan Indian, which once inhabited the valley of the Heart and the upper Missouri Rivers. The name is a corruption of the Dakota Indian word "mantani" (people of the bank)—descriptive of their villages along the river bank.

Record the population 1) _____ and county name 2) _____.

From Mandan, travel east of highway 94 to the first city after crossing the Missouri. This was named by the Northern Pacific Railroad officials for Prince Otto Von Bismarck, Germany's "Iron Chancellor," in compliment to the German bond holders who came to the rescue of the financially stricken railroad.

Record the name 3) _____, population 4) _____, and county 5) _____.

Now travel north on highway 83 for 110 miles to Minot, which grew so rapidly it was called "the Magic City." Turn southeast on highway 52, traveling 31 miles in that direction. This town was founded in 1907 by Norwegian settlers and named for their home in that city in Norway.

Record its name 6) _____, population 7) _____, and county 8) _____.

From there continue southeast on highway 52 for 57 miles. Turn east on highway 15, travel 6 miles, turning north on highway 30 for 8 miles. This town was named by its early German settlers for the city of that name in Germany. During World War I, by petition of the residents, the spelling was changed from "u" to "e".

Record its name 9) _____, population 10) _____, and county 11) _____.

Continue north on highway 30 for 39 miles. Turn west on highway 2, traveling one mile. This town was named by James J. Hill, railroad magnate, for York, England. Many stockholders of the Great Northern Railroad were Englishmen, and they named several stations along the line through the state for English towns.

Record its name 12) _____, population 13) _____, and county 14) _____.

Now travel east on highway 2 for 37 miles turning north on highway 20 for 39 miles. Located just off this highway, this town was named in honor of the early German settlers from this town in Germany.

Record its name 15) _____, population 16) _____, and county 17) _____.

Returning to highway 20, travel south for 3 miles, turning east on the gravel road for 22 miles to highway 66 east for 44 miles. Going north one mile we arrive at a town that got its name from the early settlers there from the town by that name in Ontario, Canada.

Record its name 18) _____, population 19) _____, and county 20) _____.

Now travel south on highway 81 for 22 miles. This village on the Forest River was originally settled by Canadians and named for an Ontario town in Wellington County.

Record its name 21) _____, population 22) _____, and county 23) _____.

From this town travel west on a two-lane paved road (see legend) for 22 miles. This was named for the early settlers' hometown by that name in Czechoslovakia.

Record its name 24) _____, population 25) _____, and county 26) _____.

Travel east 4 miles on the same two-lane paved road to highway 18. On highway 18, go 12 miles south and one mile west to this town named after the last name of the first settler in the township, who came from Winnipeg, Canada where a street is named for him.

Record the name 27) _____, population 28) _____, and county 29) _____.

Return to highway 18 and travel 15 miles south to highway 2, turn west for 24 miles. This town was named by Governor N.G. Ordway of Dakota territory for an Indian tribe, the Lakotahs; the Teton Sioux word for "allies"-land of plenty-many heads (otah means plenty) and in the Santee Sioux tongue "Dakota."

Record its name 30) _____, population 31) _____, and county 32) _____.